

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS II412-101 REV. F OR LATER APPROVED REVISIONS AND
INSTRUCTION FOR CONTINUED AIRWORTHINESS ICA412-101 REV. E OR LATER APPROVED REVISIONS

REF. TCCA STC: SH21-30
REF. FAA STC: SR02289LA
REF. EASA STC : 10061316

1.0 PURPOSE

It has come to Dart's attention that on some aircraft, the existing equipment may not allow relocation of the transponder antenna as outlined in Paragraph 4.1 of Installation Instructions II412-101. The purpose of this DSI is to provide guidance with relocation of the transponder antenna in an alternate location.

NOTE: It is the responsibility of the installer to respect the guidance of the transponder antenna's installation instructions and to ensure that the functionality of the transponder antenna is not adversely affected by running a series of EMI/EMC/RFI test.

2.0 PROCEDURE:

After verifying that the relocation of the transponder antenna will not affect its functionality, permanently relocate the transponder antenna per Figure 1 of this DSI and as follows.

- 2.1 Locate Doubler, P/N 647.4111, and mark antenna cutout location.
- 2.2 Drill out interfering rivets and cut aircraft skin to match Doubler cutout.
- 2.3 Match drill rivet holes to Doubler and open up nutplate holes to suit existing antenna hardware.
- 2.4 Install nutplates on Doubler with rivets per Figure 1 to correspond to antenna hardware locations
- 2.5 Apply Sealant PR-1425, P/N 600.1012, to faying surface of Doubler and install Doubler with rivets.
- 2.6 Attach antenna to Doubler using hardware recommended by antenna supplier.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 21.12.07
CERT. NO.: SH21-30
ISSUE NO.: 1

APPROVED

A	NEW ISSUE	SAD	21.12.07
REV.	DESCRIPTION	BY	DATE
DESIGN	SAD	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	MB	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9871	SHEET 1 OF 3
APPROVED	IT	TITLE	SCALE
DE APPR.	DS 	ALTERNATE ANTENNA LOCATION	NTS
DATE	21.12.07	COPYRIGHT © 2021 BY DART AEROSPACE LTD. <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

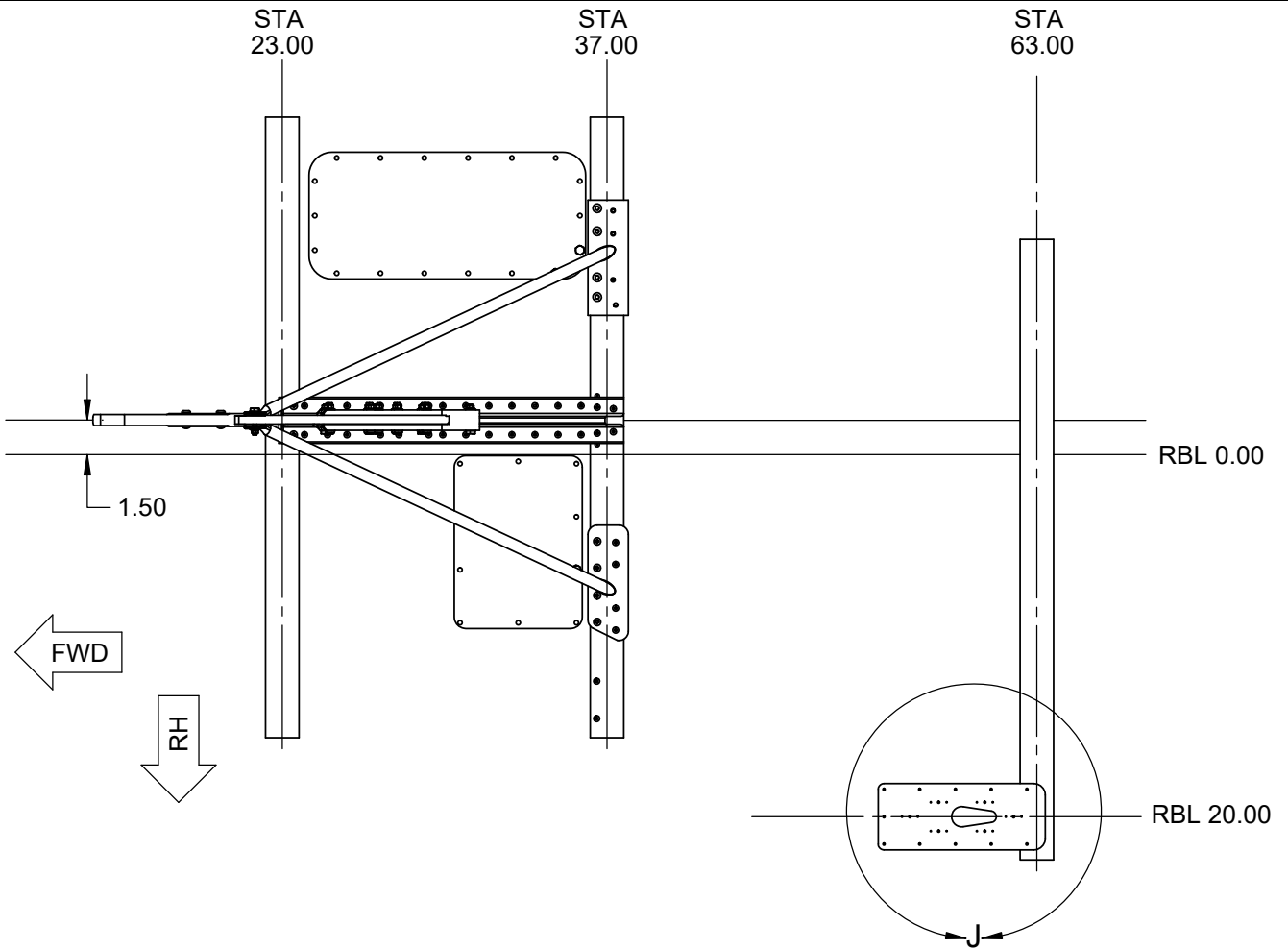
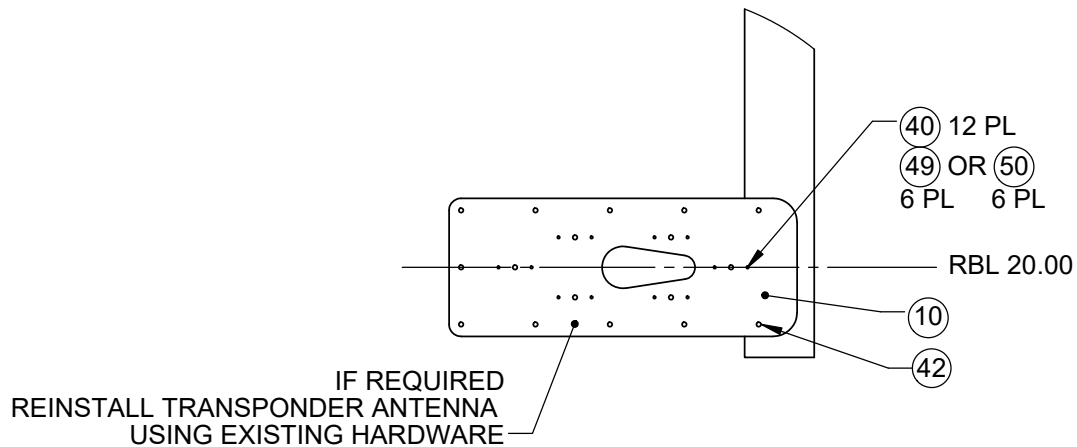


FIGURE 1:
ALTERNATE ANTENNA LOCATION
(VIEWED LOOKING UP)



DETAIL J

APPROVED

DESIGN	SAD
DRAWN	SAD
CHECKED	MB
MFG. APPR.	N/A
APPROVED	IT
DE APPR.	DS
DATE	21.12.07

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. REV. A
DSI 9871 SHEET 2 OF 3

TITLE SCALE
ALTERNATE ANTENNA LOCATION NTS

COPYRIGHT © 2021 BY DART AEROSPACE LTD.
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS
NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD.


3.0 PARTS LIST FOR DETAIL J

F/N	QTY (647.3701)	QTY (647.3702)	QTY (647.3703)	QTY (647.3704)	P/N	DESCRIPTION
10	1	1	1	1	647.4111	Doubler
40	12	12	12	12	601.2491	Rivet (CCR264SS-3-04)
42	13	13	13	13	601.1039	Rivet (CR3213-4-2)
49	6	6	6	6	601.3065	Nutplate (MS21047L06)
50	6	6	6	6	601.3066	Nutplate (MS21047L08)

4.0 WEIGHT AND BALANCE

This DSI has negligible effect on weight and balance.

APPROVED

DESIGN	SAD	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	SAD	
CHECKED	MB	DRAWING NO. REV. A
MFG. APPR.	N/A	DSI 9871 SHEET 3 OF 3
APPROVED	IT	TITLE SCALE
DE APPR.	DS 	ALTERNATE ANTENNA LOCATION NTS
DATE	21.12.07	<small>COPYRIGHT © 2021 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>